

IN THE CLAIMS

Kindly amend the claims set forth in the preliminary amendment filed May 31, 2007 as follows:

1. (Previously Submitted) Device for generation of microwaves comprising a coaxial virtual cathode oscillator with a rotation symmetrical, outer, cylindrical tube around a central axis forming a cathode and connected to a transmission line for supplying the cathode with voltage pulses, and an inner cylindrical tube, at least partially transparent for electrons, forming an anode and connected to a transmission device for outputting microwave radiation generated by the formation of a virtual cathode inside an area enclosed by the anode, wherein the cathode comprises a cylindrical centre conductor arranged to coincide with the centre axle for the outer cylindrical tube and in electrically conductive connection with the outer cylindrical tube.
2. (Currently Amended) ~~Device~~ The device as claimed in Claim 1, wherein the cylindrical centre conductor has a circular-cylindrical form.
3. (Currently Amended) ~~Device~~ The device as claimed in Claim 2, wherein the circular-cylindrical centre conductor is at least partially surrounded by a dielectric material disposed in the anode's waveguide for outputting microwave radiation.
4. (Currently Amended) ~~Device~~ The device as claimed in claim 3, wherein the dielectric material is composed of a plastic material.
5. (Currently Amended) ~~Device~~ The device as claimed in Claim 3, wherein the dielectric material is composed of a ceramic material.
6. (Cancelled)
7. (Currently Amended) ~~Device~~ The device as claimed in Claim 1, wherein the one end of

the cylindrical centre conductor is electrically and mechanically connected to a central part of a first electrically conductive wall arranged on the inside of the cathode's cylindrical tube transverse to the longitudinal direction of the tube at a distance from the anode's for the electrons ~~electron's~~ at least partially transparent; tube.

8. (Currently Amended) ~~Device~~ The device as claimed in Claim 7, wherein another electrically conductive wall is arranged on the outside of the anode's for the electrons ~~electron's~~ at least partially transparent; tube transverse to the longitudinal direction and at a distance from the cathode cylindrical tube.
9. (Currently Amended) ~~Device~~ The device as claimed in Claim 1, wherein the cylindrical centre conductor essentially consists of metal, such as aluminium, copper, or steel.
10. (Currently Amended) ~~Device~~ The device as claimed in Claim 1, wherein the transmission line for feeding the cathode is connected to a high voltage generator.
11. (Currently Amended) ~~Device~~ The device as claimed in Claim 10, wherein the high voltage generator is a Marx generator.
12. (Currently Amended) ~~Device~~ The device as claimed in Claim 1, wherein the transmission device for outputting microwave radiation is connected to an antenna.
13. (Currently Amended) ~~Device~~ The device as claimed in Claim 10, wherein the antenna is a horn antenna.
14. (Currently Amended) ~~Device~~ The device as claimed in Claim 1, wherein the anode is composed, at least partially, of mesh.
15. (Currently Amended) ~~Device~~ The device as claimed in Claim 1, wherein the anode is composed, at least partially, of a thin foil.

16. (Currently Amended) ~~Device~~ The device as claimed in Claim 1, wherein the transmission device for outputting microwave radiation to a load comprises at least parts of the inner cylindrical tube as well as a dielectric arranged in the inside of the tube.
17. (Currently Amended) ~~Device~~ The device as claimed in Claim 1, wherein the transmission device for outputting microwave radiation to a load comprises a waveguide arranged between the anode and the load.
18. (Currently Amended) ~~Device~~ The device as claimed in Claim 1, wherein the centre conductor is hollow.